

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P940053

Luminaire Tested: **GALN-SB2D-940-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-940-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14588 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

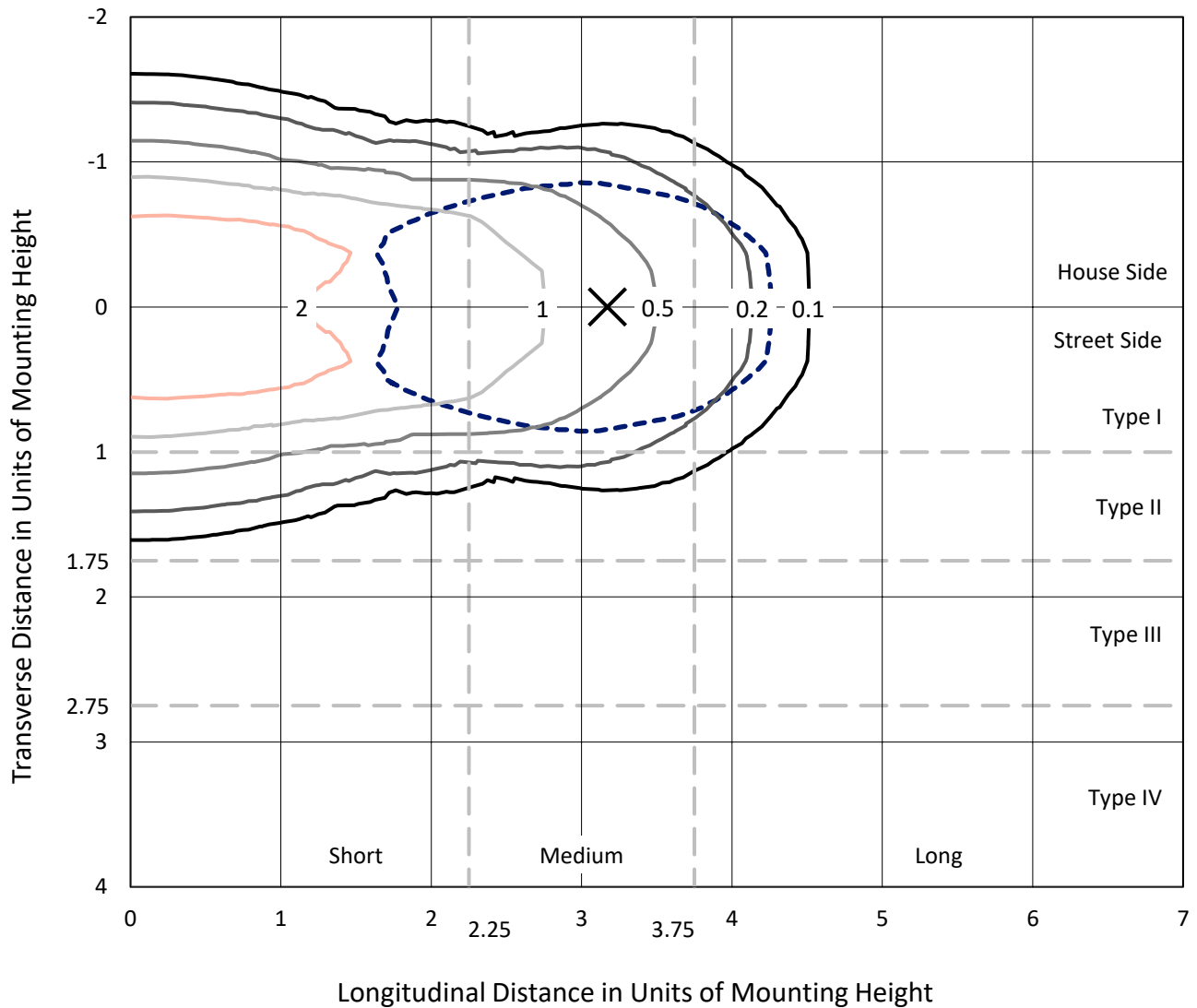
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

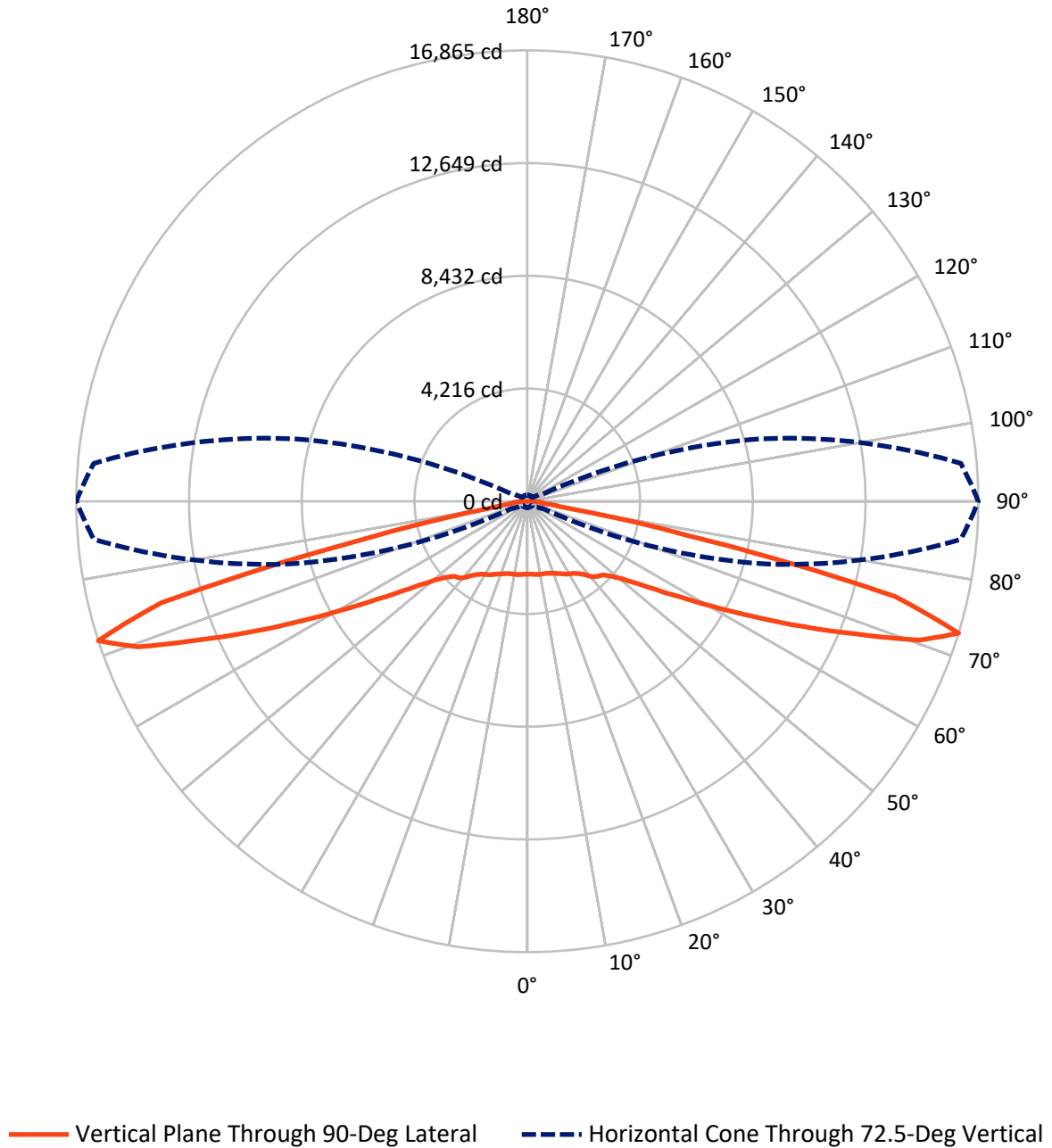
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7294.0	0.0	7294.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7294.0	0.0	7294.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14588.0	0.0	14588.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.3	1.8
10°-20°	808.2	5.5
20°-30°	1347.5	9.2
30°-40°	1853.3	12.7
40°-50°	2263.4	15.5
50°-60°	2617.8	17.9
60°-70°	3121.3	21.4
70°-80°	2178.5	14.9
80°-90°	133.8	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14588.0	100.0
0°-180°	14588.0	100.0

Coefficient of Utilization



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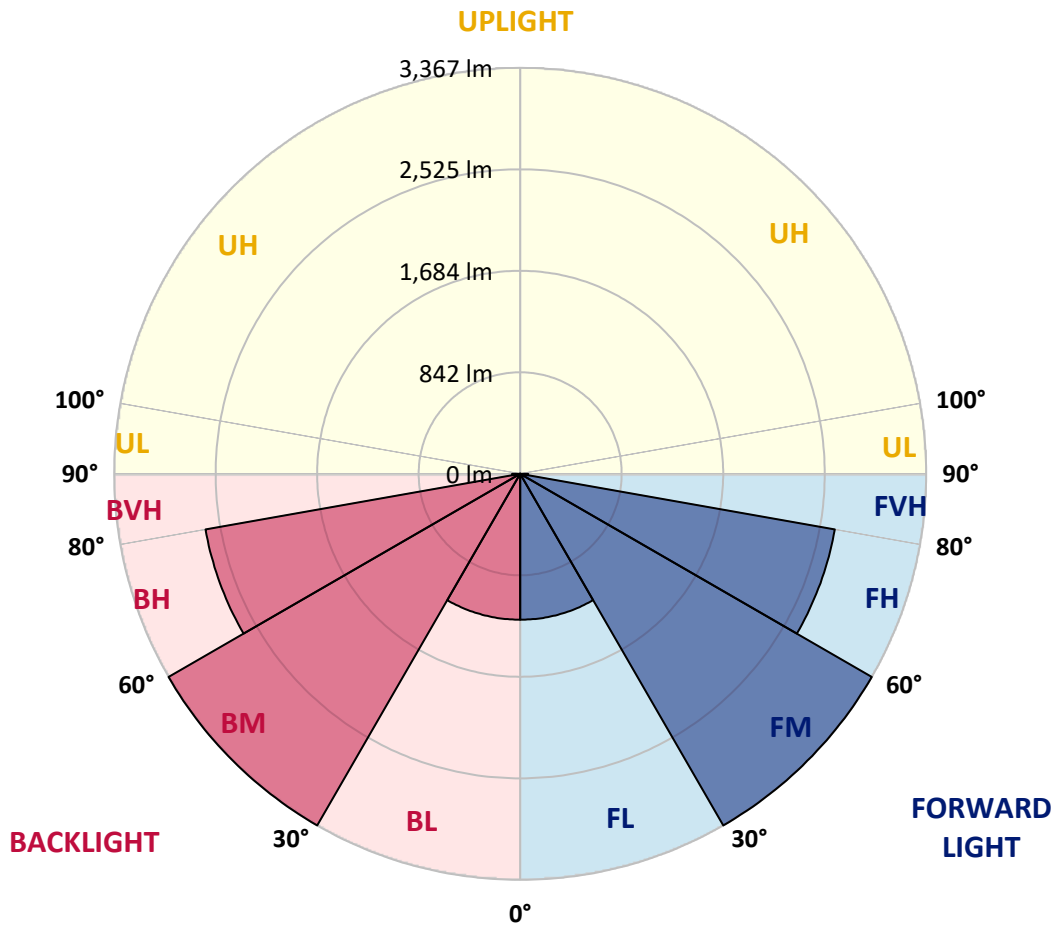
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1210.0	8.3			
FM (30°-60°)	3367.2	23.1			
FH (60°-80°)	2649.9	18.2			G2/5000
FVH (80°-90°)	66.9	0.5			G1/100
BL (0°-30°)	1210.0	8.3	B3/2500		
BM (30°-60°)	3367.2	23.1	B3/5000		
BH (60°-80°)	2649.9	18.2	B4/5000		G4/5000
BVH (80°-90°)	66.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2725.9	2725.9	2725.9	2725.9	2725.9	2725.9	2725.9	2725.9	2725.9	2725.9
2.5°	2728.2	2731.3	2731.3	2729.0	2734.4	2729.8	2729.8	2727.5	2729.8	2727.5
5°	2742.2	2746.1	2747.6	2746.9	2753.8	2750.0	2750.0	2746.9	2747.6	2745.3
7.5°	2768.6	2774.0	2777.1	2781.0	2791.0	2786.4	2783.3	2774.0	2770.1	2763.9
10°	2777.1	2783.3	2793.4	2813.5	2836.8	2837.6	2828.3	2805.0	2787.2	2773.2
12.5°	2750.7	2759.3	2780.2	2821.3	2873.2	2894.2	2879.4	2840.7	2805.8	2781.0
15°	2717.4	2726.7	2758.5	2820.5	2897.3	2946.1	2944.6	2893.4	2837.6	2798.8
17.5°	2665.4	2674.8	2720.5	2807.3	2915.9	2996.5	3018.2	2965.5	2887.2	2835.2
20°	2571.6	2580.2	2643.7	2765.5	2922.1	3050.0	3106.6	3060.1	2962.4	2891.8
22.5°	2449.9	2463.1	2537.5	2693.4	2907.3	3105.8	3207.4	3175.6	3050.0	2952.3
25°	2319.7	2333.6	2420.5	2605.0	2869.4	3146.1	3326.8	3306.6	3149.2	3027.5
27.5°	2207.3	2222.0	2316.6	2517.4	2810.4	3161.6	3444.6	3454.7	3269.4	3110.5
30°	2118.9	2132.8	2233.6	2446.8	2734.4	3146.1	3547.7	3617.5	3391.9	3182.6
32.5°	2022.0	2039.8	2146.0	2360.8	2644.5	3108.9	3637.7	3793.5	3533.8	3260.1
35°	1899.5	1915.7	2027.4	2242.9	2526.7	3049.2	3712.9	3988.9	3736.9	3377.9
37.5°	1750.6	1766.1	1877.0	2095.6	2409.6	2965.5	3770.2	4209.1	3978.8	3547.7
40°	1601.0	1615.7	1719.6	1931.2	2269.3	2858.5	3790.4	4424.6	4256.3	3781.1
42.5°	1463.7	1476.9	1572.3	1769.2	2111.9	2722.0	3764.0	4612.2	4505.2	3943.9
45°	1337.4	1349.0	1433.5	1617.3	1948.3	2556.1	3685.0	4813.8	4801.4	4060.2
47.5°	1193.2	1204.8	1292.4	1470.0	1784.7	2361.5	3550.8	5012.3	5213.1	4323.8
50°	1017.2	1027.3	1117.2	1300.2	1614.9	2154.5	3364.8	5168.1	5732.5	4723.1
52.5°	808.6	819.5	907.1	1090.1	1413.4	1932.0	3119.8	5269.7	6332.6	5306.1
55°	601.6	609.4	685.4	849.7	1163.7	1678.5	2812.8	5298.3	7013.3	6103.1
57.5°	436.5	441.1	490.0	612.5	882.3	1361.4	2439.8	5223.9	7823.5	7124.9
60°	353.5	355.1	369.8	424.1	613.3	1003.2	1989.4	4968.1	8702.6	8442.1
62.5°	321.0	321.0	324.8	339.6	414.8	662.1	1444.4	4437.8	9645.4	10106.7
65°	298.5	298.5	300.0	307.0	327.2	421.8	911.7	3574.1	10440.1	12056.5
67.5°	278.3	279.1	278.3	280.7	292.3	311.7	528.7	2468.5	10868.0	14077.0
70°	257.4	258.9	255.1	255.1	264.4	265.1	331.0	1353.7	10512.9	15770.2
72.5°	232.6	234.9	228.7	227.2	234.1	231.0	248.9	649.7	9025.9	16275.7
75°	210.9	214.0	200.0	196.1	196.1	193.8	202.4	333.4	5858.1	13276.9
77.5°	191.5	197.7	175.2	162.8	159.7	152.7	165.1	203.9	2562.3	6233.3
80°	158.2	166.7	144.2	129.5	124.0	116.3	130.2	142.7	762.1	1447.5
82.5°	117.8	121.7	102.3	92.3	87.6	82.2	97.7	99.2	248.1	512.5
85°	75.2	76.8	62.8	54.3	51.9	49.6	62.0	54.3	94.6	376.8
87.5°	26.4	30.2	24.0	21.7	23.3	19.4	28.7	16.3	26.4	265.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

2725.9
2727.5
2745.3
2763.9
2770.9
2777.1
2792.6
2826.7
2878.7
2934.5
3002.7
3084.1
3144.6
3212.0
3324.4
3476.4
3705.1
3846.2
3928.4
4171.8
4532.3
5071.2
5809.3
6755.1
7976.2
9482.6
11267.3
13224.9
15546.1
16864.9
14201.0
6103.9
1386.2
579.1
547.4
329.5
0.0

OF REPORT)